## **CLAIMS**

10

25

- An aqueous hair conditioning composition comprising;
- a) from 1% to 50% by weight of a cleansing surfactant,
  - b) discrete, dispersed droplets comprising a water insoluble silicone conditioning oil, wherein the Sauter mean diameter of the droplets (D<sub>3,2</sub>) is from 2 to 100 micrometres and
  - c) a surface active block copolymer according to formula I:
- 15 I  $HO(CH_2CH_2O)_m[-Si(CH_3)_2-O-]_n(CH_2CH_2O)_mH$

wherein m is 30 or more, n is 5 or more and the ratio n/m is from 0.1 to 1.2.

- 20 2. A composition according to claim 1 comprising from 0.01% to 0.4% by weight of the surface active block copolymer.
  - 3. A composition according to any preceding claim wherein the silicone conditioning oil has a viscosity from 5000 to  $1000000 \text{ mm}^2 \text{sec}^{-1}$  at 25° C.
    - 4. A composition according to any preceding claim wherein the silicone conditioning oil comprises a functionalised silicone.

WO 2004/052324 PCT/EP2003/012220

- 30 -

5. A composition according to claim 4 wherein the functionalised silicone is a silicone copolyol with an HLB of 10 or less.

5

20

25

- 6. A composition according to claim 4, wherein the functionalised silicone is an amino-functionalised silicone.
- 7. A composition according to claim 6 wherein the amino10 functionalised silicone has a weight percent amino
  functionality from 0.03 to 8, preferably from 0.5 to 4
  percent.
- 8. A composition according to any preceding claim wherein the composition comprises less than 0.01% by weight of a cationic deposition polymer.
  - 9. A composition according to any preceding claim wherein the cleansing surfactant is selected from the group consisting of anionic, amphoteric, zwitterionic and nonionic surfactants and mixtures thereof.
  - 10. A method for preparing an aqueous hair conditioning composition according to any preceding claim comprising the steps of:
    - i) preparing a solution comprising water and the surface active block copolymer,
- 30 ii) adding a silicone conditioning oil to the solution,

WO 2004/052324 PCT/EP2003/012220

- 31 -

iii) forming the solution and the silicone conditioning oil into an oil-in-water emulsion by high-shear mixing,

5

- iv) dispersing the oil-in-water emulsion comprising the block copolymer into a hair conditioning composition.
- 10 11. A method for preparing a hair conditioning composition according to claim 1 comprising the steps of:
  - i) preparing an oil-in-water emulsion of a silicone conditioning oil,

15

- ii) dispersing the surface active block copolymer into the emulsion,
- iii) dispersing the oil-in-water emulsion comprising the block copolymer into a hair conditioning composition.
  - 12. The use of a composition according to any one of claims 1 to 9 for cleaning and conditioning hair.

25

WO 2004/052324 PCT/EP2003/012220

- 32 -

- 13. A method of cleaning and conditioning hair by applying a composition according to any one of claims 1 to 9 followed by rinsing.
- 5 14. The use of a composition according to any of claims 1 to 9 for improving the deposition of silicone conditioning oil onto the tip region of hair relative to the root region of hair.